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(54) Title: IDENTIFICATION OF INHIBITORS OF MITOSIS

(57) Abstract: Methods and compositions are described for using NIMA-like kinases to identify anti-mitotic compounds and to diagnose cancer.



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# INTERNATIONAL SEARCH REPORT

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<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC(7) : G01N 33/53, 33/48; A61K 49/00, 38/00; C07K 1/00 US CL : 435/7.72; 436/64; 424/9.1; 530/300, 350 According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) U.S. : 435/7.72; 436/64; 424/9.1; 530/300, 350 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) STN, MEDLINE, GENESEQ.		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	GENESEQ DATABASE (Derwent, London, UK) Accession No. AAW40309, 18 December 1997, 99.7% identity to amino acids 347-732 and 338-739 of SEQ ID NO:2	42
X,P	ROIG et al. Nerccl, a mammalian NIMA-family kinase, binds the Ran GTPase and regulates mitotic progression. July 2002, Genes & Development. Vol. 16. pp 1640-1658, entire article.	1-34, 38-45
X	WO 97/47750 A1 (IMMUNEX CORPORATION) 18 December 1997 (18.12.97), page 15, line 29.	42-44
—		1, 11-12
A		
X	WO 99/66051 A2 (SUGEN, INC.) 23 December 1999 (23.12.99) pgs. 27,110,52, 108	35-37
—		22
A		
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
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Name and mailing address of the ISA/US Majl Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 872-9305		Authorized officer Gary B. Nickol Ph.D. Telephone No. (571) 272-1600